

Abstract Of The Disclosure

5 A system for subjective evaluation of a
vehicle design within a virtual environment includes
a scaleable physical property representative of the
vehicle design, such that the physical property is
adjusted according to a scale ratio for an evaluator
of the vehicle design. The system also includes a
10 computer system for digitally creating a virtual
environment having a virtual human immersed within.
The system further includes a motion capture system
for sensing a motion of the evaluator and
communicating the sensed motion of the evaluator to
15 the computer system and a virtual reality display
mechanism operatively communicating with the computer
system, for providing the evaluator a view of the
virtual environment while evaluating the vehicle
design. The method includes the steps of preparing
20 an evaluator of a vehicle design for immersion as a
virtual human in the virtual environment and
determining a scale ratio for the evaluator. The
method also includes the steps of preparing an
adjustable property using the vehicle design and the

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scale ratio. The method further includes the steps
of growing the virtual human within the virtual
environment to virtually represent a scaled
evaluator, and aligning the virtual human in the
5 virtual environment with the evaluator and the
property. The method still further includes the
steps of performing the evaluation of the vehicle
design by the evaluator and using the evaluation of
the vehicle design in the design of the vehicle.

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